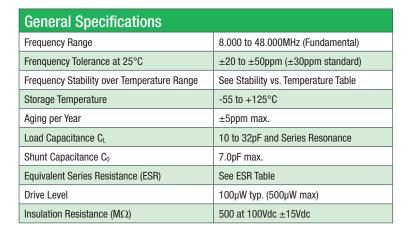
Features

- All ceramic epoxy sealed SMD package
- Low in height, suitable for thin equipment
- Tight tolerance and stability available

Applications

- High density applications
- Modem, communication and test equipment

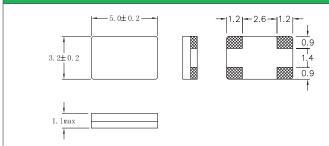


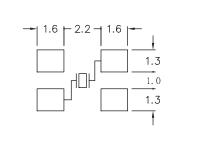


Equivalent Series Resistance (ESR)							
Frequency Range - MHz	Ω max.	Mode of Operation					
8.000 to 10.000	100	Fundamental					
10.000 to 12.000	80	Fundamental					
12.000 to 16.000	60	Fundamental					
16.000 to 48.000	30	Fundamental					

Frequency Stability vs. Temperature								
Operating Temperature	±20ppm	±30ppm	±50ppm					
-20 to +70°C	0	0	0					
-40 to +85°C	0	•	0					
			• standard O available					







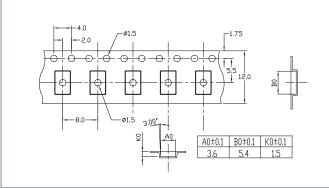
Part Numbering Guide								
Qantek Code	Package	Nominal Frequency (in MHz)	Vibration Mode	Load Capacitance	Operating Temperature Range	Frequency Tolerance	Frequency Stability	Packaging
Q = Qantek	C5CA = 3.2x5.0 4-Pad SMD	7 digits including the decimal point (f.ie. 12.0000)	F = AT-Fund	S = Series 12 = 12pF 18 = 18pF 20 = 20pF etc.	A = -20 to +70°C B = -40 to +85°C	2 = ±20ppm 3 = ±30ppm 5 = ±50ppm	2 = ±20ppm 3 = ±30ppm 5 = ±50ppm	M = 250pcs Tape&Reel R = 1000pcs Tape&Reel
Example: QC5CA12.0000F12B33R bold letters = recommended standard specification								

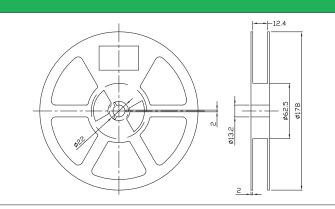


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Tape and Reel Dimensions



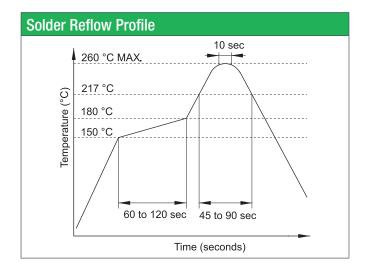


Marking Code Guide

Contains frequency, Qantek manufacturing code, production code (month and year) and load capacitance.

odes				Year Codes					Load Capacitance Code in pF					
А	July	G		2010	0	2011	1	2012	2		pF	PN Code	рF	PN Code
В	August	Н		2013	3	2014	4	2015	5		12	А	20	F
С	September	1									18	В	22	G
D	October	J									8	С	30	Н
E	November	К									10	D	32	I
F	December	L									16	E	S	S
	A B C D E	AJulyBAugustCSeptemberDOctoberENovember	AJulyGBAugustHCSeptemberIDOctoberJENovemberK	AJulyGBAugustHCSeptemberIDOctoberJENovemberK	AJulyG2010BAugustH2013CSeptemberIDOctoberJENovemberK	AJulyG20100BAugustH20133CSeptemberIDOctoberJENovemberK	AJulyG201002011BAugustH201332014CSeptemberI </td <td>AJulyGBAugustHCSeptemberIDOctoberJENovemberK</td> <td>A July G 2010 0 2011 1 2012 B August H 2013 3 2014 4 2015 C September I I 2015 I 1 2015 D October J I I 2015 I I 2015 E November K K I I I 2012</td> <td>A July G 2010 0 2011 1 2012 2 B August H 2013 3 2014 4 2015 5 C September I D October J E November K</td> <td>A July G B August H C September I D October J E November K</td> <td>A July G 2010 0 2011 1 2012 2 B August H 2013 3 2014 4 2015 5 12 C September I Image: September Image: September 1 1 2015 5 18 D October J Image: September K Image: September Image: September 10</td> <td>AJulyG201002011120122BAugustH20133201442015512ACSeptemberIDOctoberJENovemberK</td> <td>A July G 2010 0 2011 1 2012 2 B August H 2013 3 2014 4 2015 5 12 A 20 C September I Image: Constraint of the sector of</td>	AJulyGBAugustHCSeptemberIDOctoberJENovemberK	A July G 2010 0 2011 1 2012 B August H 2013 3 2014 4 2015 C September I I 2015 I 1 2015 D October J I I 2015 I I 2015 E November K K I I I 2012	A July G 2010 0 2011 1 2012 2 B August H 2013 3 2014 4 2015 5 C September I D October J E November K	A July G B August H C September I D October J E November K	A July G 2010 0 2011 1 2012 2 B August H 2013 3 2014 4 2015 5 12 C September I Image: September Image: September 1 1 2015 5 18 D October J Image: September K Image: September Image: September 10	AJulyG201002011120122BAugustH20133201442015512ACSeptemberIDOctoberJENovemberK	A July G 2010 0 2011 1 2012 2 B August H 2013 3 2014 4 2015 5 12 A 20 C September I Image: Constraint of the sector of

Example: First Line: 12.000 (Frequency) Second Line: QA1A (Qantek - January - 2011 - 12 pF)



Environmental Specifications					
Mechanical Shock	MIL-STD-202, Method 213, C				
Vibration	MIL-STD-202, Method 201 & 204				
Thermal Cycle	MIL-STD, Method 1010, B				
Gross Leak	MIL-STD-202, Method 112				
Fine Leak	MIL-STD-202, Method 112				

All specifications are subject to change without notice.



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